Notice of Allowability	Application No.	Applicant(s)
	09/991,738	JEON, YONG-WON
	Examiner	Art Unit
	Barry Choobin	2625
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-3</u> .		
3. The drawings filed on <u>26 November 2001</u> are accepted by the Examiner.		
 4.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)		atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material 	,,	

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DETAILED ACTION

Claims 1-3 are pending.

REASON FOR ALLOWANCE

Prior art fails to teach or fairly suggest an image processing method comprising the steps of: compressing the road image having undergone the inverse perspective process of vertical direction; determining slope in the lane markers from compressed image; determining a curvature in the road from the determined slop in the lane markers and determining a drive direction and a lateral lane deviation of the vehicle.

Although Yuhara et al (US 6,658,137) disclose a road sensor means comprising a means for capturing brightness values form plurality windows and to eliminate undesirable windows, the brightness value of the windows in this row are averaged and the windows having brightness values that are significantly different from the mean value are excluded.

But Yuhara et al fails to teach or fairly suggest the limitation of the claimed invention as recited in claim—1, particularly compressing the road image having undergone the inverse perspective process of vertical direction; determining slope in the lane markers from compressed image; determining a curvature in the road from the determined slop in the lane markers and determining a drive direction and a lateral lane deviation of the vehicle.

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Accordingly, claims 1-3 are allowed.

CONTACT INFORAMTION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barry Choobin whose telephone number is 703-306-5787. The examiner can normally be reached on M-F 7:30 AM to 18:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 703-308-5246. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Barry Choobin September 30, 2004

BHAVESH M. MEHTA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600